Adult Census Income Prediction

PROJECT ARCHITECTURE
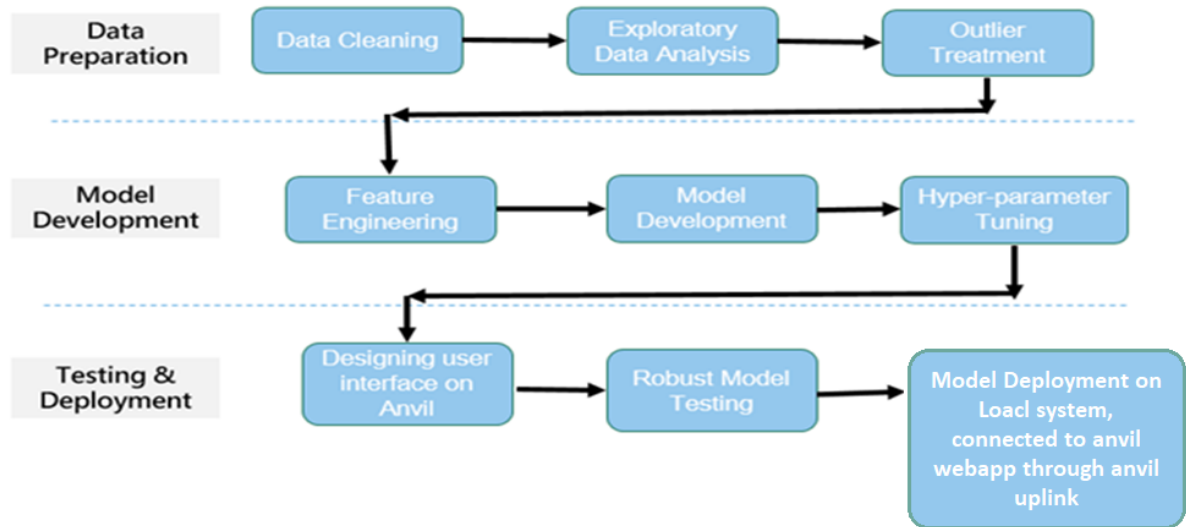
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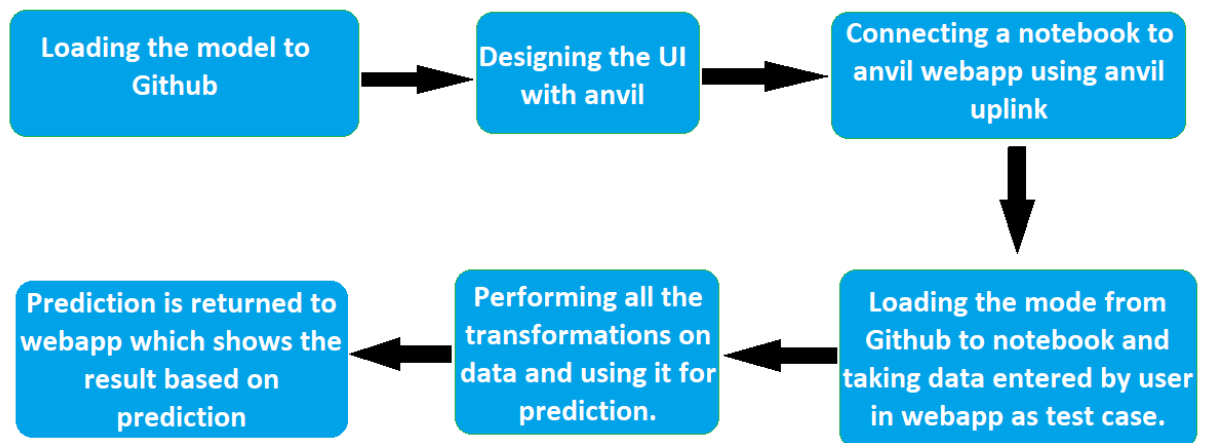Project By :

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Architecture

Proposed Methodology

Deployment Process

Architecture Description

Data Description

The dataset named Adult Census Income is available in kaggle and UCI repository. This data was extracted from the 1994 census bureau dataset by Ronny Kohavi and Barry Becker (Data Mining and Visualization, Silicon Graphics). **The prediction task is to determine whether a person makes over $50K a year or not.**

Data Preparation

This step includes all the necessary steps that take place in the life cycle of a data science project namely, Data cleaning, Exploratory Data Analysis (EDA), and outlier treatment. In this step, our data gets prepared to be feeded to our ML model.

Model Development

This step contains all other necessary steps such as Feature Engineering, Feature Selection, Model Selection and Hyperparameter tuning to make the best possible model that can be made for accurate and correct prediction.

Deployment Process

In this step, we first develop the UI using Anvil and connect with a new jupyter notebook using anvil uplink, the trained, pickled model will be loaded in the notebook as well, when the user gives input through anvil webapp, the input is passed as test case data with the help of anvil callable function, the data is then converted into pandas dataframe and all the operations performed on original data are performed. This a prediction is made using this data which is returned to anvil webapp. The webapp shows result of prediction to the user.